

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>DP NAME</u>						<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
DUCKZ						FOUR	DUCKZ4.DUCKZ	THREE	04/30/2015	
<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>					
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					

**DP ROUTE DESCRIPTION:**

**TAKEOFF RWY 9:** CLIMB HEADING 092.95 TO 860, THEN CONTINUE CLIMB ON HEADING 092.95, EXPECT VECTORS TO WSTIN, THEN ON DEPICTED ROUTE TO DUCKZ, THENCE...

**TAKEOFF RWY 18C:** CLIMB HEADING 180.01 TO INTERCEPT COURSE 211.62 TO CHETO, THEN ON DEPICTED ROUTE TO DUCKZ, THENCE...

**TAKEOFF RWY 18L:** CLIMB HEADING 180.00 TO INTERCEPT COURSE 214.15 TO CHETO, THEN ON DEPICTED ROUTE TO DUCKZ, THENCE...

**TAKEOFF RWY 18R:** CLIMB HEADING 179.99 TO INTERCEPT COURSE 201.96 TO CHETO, THEN ON DEPICTED ROUTE TO DUCKZ, THENCE...

**TAKEOFF RWY 27:** CLIMB HEADING 272.97 TO 860, THEN CONTINUE CLIMB ON HEADING 272.97, EXPECT VECTORS TO WSTIN, THEN ON DEPICTED ROUTE TO DUCKZ, THENCE...

**TAKEOFF RWY 36C:** CLIMB HEADING 000.01 TO INTERCEPT COURSE 324.54 TO BEEAL, THEN ON DEPICTED ROUTE TO DUCKZ, THENCE...

**TAKEOFF RWY 36L:** CLIMB HEADING 359.99 TO INTERCEPT COURSE 332.06 TO BEEAL, THEN ON DEPICTED ROUTE TO DUCKZ, THENCE...

**TAKEOFF RWY 36R:** CLIMB HEADING 360.00 TO INTERCEPT COURSE 324.58 TO BEEAL, THEN ON DEPICTED ROUTE TO DUCKZ, THENCE...

...MAINTAIN 5000. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN TEN (10) MINUTES AFTER DEPARTURE.

**TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):**

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
HELAR	DUCKZ4.HELAR	DUCKZ	HELAR	TRACK 271.52	2.00	9200	1800	

**PROCEDURAL DATA NOTES:**

**NOTE:** DME/DME/IRU OR GPS REQUIRED.

**NOTE:** RNAV 1.

**NOTE:** TURBOJETS ONLY.

**NOTE:** TAKEOFF RWY 18L, 18C, 18R, 36L, 36C, 36R - RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.

**NOTE:** TAKEOFF RWY 9, 27 - RADAR REQUIRED.

**NOTE:** TRANSPONDER CODE WILL BE ISSUED VIA PDC OR MEMPHIS CLEARANCE DELIVERY.

**NOTE:** ACCELERATE TO 250 KIAS, IF UNABLE ADVISE ATC.

**NOTE:** IF UNABLE TO ACCEPT CLIMB RATES, ADVISE ATC ON INITIAL CONTACT.

**TAKEOFF MINIMUMS:**

**RWY 9, 18C, 18L, 18R, 27, 36L, 36C, 36R,** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 860.

**TAKEOFF OBSTACLES NOTES:**

**NOTE: RWY 9:** LIGHT POLE 1497 FT FROM DER, 799 FT LEFT OF CENTERLINE, 43 FT AGL/342 FT MSL.

**NOTE: RWY 18R:** VORTAC AND ROD ON POLE BEGINNING 3209 FT FROM DER, 1019 FT LEFT OF CENTERLINE, UP TO 43 FT AGL/412 FT MSL. TREES 3231 FT FROM DER, 1038 FT RIGHT OF CENTERLINE, UP TO 87 FT AGL/406 FT MSL.

**NOTE: RWY 27:** TREES 4145 FT FROM DER, 1382 FT LEFT OF CENTERLINE, UP TO 112 FT AGL/361 FT MSL.

**NOTE: RWY 36C"** LIGHT POLE 1948 FT FROM DER, 928 FT RIGHT OF CENTERLINE, 77 FT AGL/336 FT MSL.

**CONTROLLING OBSTACLES:**

**RWY 36C:** 617 FT MSL ATC TOWER 350258.68N/0895853.69W.

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
DUCKZ	FOUR	DUCKZ4.DUCKZ	THREE	04/30/2015	

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

REFERENCE MAG VAR: KMEM 1W EPOCH YEAR: 2020.

DME/DME ASSESSMENT: SAT (RNP 2.0)

**CHART:** MEA/MOCA FROM WSTIN TO DUCKZ, 8800/1900.

**PILOT NAVIGATION AREA:**

10 NM ARC CENTERED ON WSTIN (IF), CW

FROM: POINT A (BEARING 227 TO WSTIN)

TO: POINT B (BEARING 317 TO WSTIN)

MINIMUM ALTITUDE - 8100

CHART: TOP ALTITUDE: 5000

**AIRPORTS SERVED:**

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
MEMPHIS INTL	MEMPHIS	TN

**COMMUNICATIONS:**

ATIS, CLEARANCE DEL, GROUND CONTROL, TOWER, DEP CON

**FIXES AND/OR NAVAIDS:**

MUDHO, KOSLE, PRYMD, HIVUS

**REMARKS:**

CONTROLLING OBSTACLE FOR RUNWAY 36C IS NOT IN AVNIS DATABASE (SEE 2013-ASO-75-NRA).

ABBREVIATED AMENDMENT.

**FLIGHT INSPECTED BY:**

**OFFICE SYMBOL:**

**DATE:**

**DEVELOPED BY:**

THOMAS L. KIRKPATRICK

THOMAS L KIRKPATRICK II

Digitally signed by THOMAS L KIRKPATRICK II  
Date: 2017.05.24 07:17:26 -05'00'

**OFFICE SYMBOL:**

AJV-5423

**DATE:**

05/24/2017

**APPROVED BY:**

JULIE MORGAN

**OFFICE SYMBOL:**

AJV-5420

**DATE:**

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**COORDINATED WITH:**

QUALITY  
8  
CHECKED

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
DUCKZ	FOUR	DUCKZ4.DUCKZ	THREE	04/30/2015	
<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**OTHER:**

ATA, ZME, MEM APP CON, MEM ATCT, ARPT MGR

**CHANGES - REASONS:**

**CHANGES -**

1. ALL COURSES/TRACKS CHANGED 2 DEGREES WEST.
2. CHANGED RECOMMENDED NAVAID FROM MEM VORTAC TO MHZ VORTAC.

**REASONS -**

1. AIRPORT MAGVAR CHANGED FROM 1E/2000 TO 1W/2020.
2. AIRPORT MAGVAR AND NAVAID MAGVAR NEEDS TO BE THE SAME.



**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
DEPARTURE (DATA RECORD)**

<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>EFFECTIVE DATE</u>
DUCKZ		FOUR		DUCKZ4.DUCKZ		THREE		04/30/2015	
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RW09 (AER)	350331.04N/0895908.63W	N	-	-	-	-			
860 MSL		-	-	VA	091.95	-			CG 500 FT/NM TO 860
		-	-	VM	091.95	-			
WSTIN	350125.43N/0904452.62W	Y	FB	DF	-	-			
DUCKZ	350127.16N/0904854.43W	Y	FB	TF	270.52	3.31			
RW18C (AER)	350316.54N/0895834.21W	N	-	-	-	-			
	345937.82N/0895829.62W	-	-	VI	179.01	3.64			CG 500 FT/NM TO 860
CHETO	345630.01N/0900044.60W	Y	FB	CF	210.62	3.63			RECOMMENDED NAVAID: MHZ VORTAC
MUDHO	345629.79N/0900625.60W	Y	FB	TF	269.98	4.67			
KOSLE	345726.66N/0901223.95W	Y	FB	TF	280.94	5.00			
WSTIN	350125.43N/0904452.62W	Y	FB	TF	278.62	26.98			
DUCKZ	350127.16N/0904854.43W	Y	FB	TF	270.52	3.31			
RW18L (AER)	350255.74N/0895822.63W	N	-	-	-	-			
	345934.38N/0895818.37W	-	-	VI	179.00	3.35			CG 500 FT/NM TO 860
CHETO	345630.01N/0900044.60W	Y	FB	CF	213.15	3.66			RECOMMENDED NAVAID: MHZ VORTAC
MUDHO	345629.79N/0900625.60W	Y	FB	TF	269.98	4.67			
KOSLE	345726.66N/0901223.95W	Y	FB	TF	280.94	5.00			
WSTIN	350125.43N/0904452.62W	Y	FB	TF	278.62	26.98			
DUCKZ	350127.16N/0904854.43W	Y	FB	TF	270.52	3.34			



**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
DEPARTURE (DATA RECORD)**

<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>EFFECTIVE DATE</u>
DUCKZ		FOUR		DUCKZ4.DUCKZ		THREE		04/30/2015	
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RW18R (AER)	350258.16N/0895914.79W	N	-	-	-	-			
	345951.64N/0895910.79W	-	-	VI	178.99	3.10			CG 500 FT/NM TO 860
CHETO	345630.01N/0900044.60W	Y	FB	CF	200.96	3.59			RECOMMENDED NAVAID: MHZ VORTAC
MUDHO	345629.79N/0900625.60W	Y	FB	TF	269.98	4.67			
KOSLE	345726.66N/0901223.95W	Y	FB	TF	280.94	5.00			
WSTIN	350125.43N/0904452.62W	Y	FB	TF	278.62	26.98			
DUCKZ	350127.16N/0904854.43W	Y	FB	TF	270.52	3.31			
RW27 (AER)	350328.01N/0895721.08W	N	-	-	-	-			
860 MSL		-	-	VA	271.97	-			CG 500 FT/NM TO 860
		-	-	VM	271.97	-			
WSTIN	350125.43N/0904452.62W	Y	FB	DF	-	-			
DUCKZ	350127.16N/0904854.43W	Y	FB	TF	270.52	3.31			
RW36C (AER)	350126.58N/0895831.90W	N	-	-	-	-			
	350431.05N/0895835.78W	-	-	VI	359.01	3.07			CG 500 FT/NM TO 860
BEEAL	350837.23N/0900217.24W	Y	FB	CF	323.54	5.09			RECOMMENDED NAVAID: MHZ VORTAC
PRYMD	350848.18N/0900827.62W	Y	FB	TF	272.09	5.07			
HIVUS	350855.04N/0901749.27W	Y	FB	TF	270.90	7.68			
WSTIN	350125.43N/0904452.62W	Y	FB	TF	251.51	23.43			
DUCKZ	350127.16N/0904854.43W	Y	FB	TF	270.52	3.31			

QUALITY  
8  
CHECKED

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
DEPARTURE (DATA RECORD)**

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
DUCKZ							FOUR	DUCKZ4.DUCKZ	THREE	04/30/2015	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
RW36L (AER)	350125.98N/0895912.81W	N	-	-	-	-					
	350408.46N/0895916.30W	-	-	VI	358.99	2.70				CG 500 FT/NM TO 860	
BEEAL	350837.23N/0900217.24W	Y	FB	CF	331.06	5.11				RECOMMENDED NAVAID: MHZ VORTAC	
PRYMD	350848.18N/0900827.62W	Y	FB	TF	272.09	5.07					
HIVUS	350855.04N/0901749.27W	Y	FB	TF	270.90	7.68					
WSTIN	350125.43N/0904452.62W	Y	FB	TF	251.51	23.43					
DUCKZ	350127.16N/0904854.43W	Y	FB	TF	270.52	3.31					
RW36R (AER)	350126.74N/0895820.75W	N	-	-	-	-					
	350418.06N/0895824.38W	-	-	VI	359.00	2.85				CG 500 FT/NM TO 860	
BEEAL	350837.23N/0900217.24W	Y	FB	CF	323.58	5.35				RECOMMENDED NAVAID: MHZ VORTAC	
PRYMD	350848.18N/0900827.62W	Y	FB	TF	272.09	5.07					
HIVUS	350855.04N/0901749.27W	Y	FB	TF	270.90	7.68					
WSTIN	350125.43N/0904452.62W	Y	FB	TF	251.51	23.43					
DUCKZ	350127.16N/0904854.43W	Y	FB	TF	270.52	3.31					
DUCKZ	350127.16N/0904854.43W	Y	-	IF	-	-				DUCKZ4.HELAR	
HELAR	350128.23N/0905120.54W	Y	FB	TF	270.52	2.00					

